DANGEROUS OR DISRUPTIVE TECHNOLOGIES TO STRATEGIC NUCLEAR
STABILITY: POTENTIAL WAYS TO CONTROL THROUGH EXISTING OR NEW
ARMS CONTROL FRAMEWORKS AND INTERNATIONAL REGULATORY
REGIMES

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ABSTRACT:

FAS proposes to provide an initial analysis from an arms control perspective of emerging
dangerous/disruptive technologies that have significant potential for substantial effects on strategic
nuclear stability over the mid-term to long-term. FAS will perform applied research that will develop a
list of primary disruptive and threatening emerging technologies; examine the adequacy of existing
international regulatory/control mechanisms that address/limit their use/trade/transfer; and suggest
new international regulatory/control regimes to capture the emerging threats. This research will benefit
the public because it will seek ways to reduce the risks of strategic nuclear instability due to the
emergence and deployment of these potentially dangerous or disruptive technologies. The researchers
will use the methodology of extensive literature review, numerous discussions with experts, research
travel to a couple of major universities, and a key workshop in Washington, DC, to further discuss
ideas with experts near the final phase of the project. The study will focus on the three major nuclear
powers, the United States, Russia, and China, because of the public's interest in achieving and
maintain strategic nuclear stability among these powers.